Montana Board of Oil and Gas Conservation Environmental Assessment

Operator: KeeSun Corporation
Well Name/Number: Johnston 1-31
Location: NE NE Section 31 T33N R4W
County: Toole MT; Field (or Wildcat) Wildcat
Air Quality
(possible concerns)
Long drilling time: No, 3 to 4 days drilling time.
Unusually deep drilling (high horsepower rig): No, small single derrick drilling rig, about
500 HP (Estimated) to drill to 2900' TD.
Possible H2S gas production: No, no H2S anticipated.
In/near Class I air quality area: No not in a Class I air quality area.
Air quality permit for flaring/venting (if productive): Yes, DEQ air quality permit required
under 75-2-211.
Mitigation:
_X Air quality permit (AQB review)
Gas plants/pipelines available for sour gas
Special equipment/procedures requirements
Other:
Comments: No special concerns – using small rig to drill to 2900' TD.
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Water Quality (possible concerns)
Salt/oil based mud: No, freshwater, freshwater mud system, air, air mist.
High water table: No high water table anticipated.
Surface drainage leads to live water: Yes, closest drainage is an unnamed ephemeral
drainage, about ¼ of a mile to the northeast from this location. Within this unnamed
drainage are stock ponds.
Water well contamination: No, closest water wells are about 3/8 of a mile to the east,
5/8 of a mile to the west southwest and 5/8 of a mile south from this location. Depth of
these water domestic and stock water wells range from 100' to 120'. Surface hole in this
well will be drilled to 300' with freshwater and/or air. Steel surface casing will be run and
cemented to surface to protect ground water if any.
Porous/permeable soils: No, sandy silty bentonitic soils.
Class I stream drainage: No Class I stream drainages.
Mitigation:
Lined reserve pit
X_Adequate surface casing
Berms/dykes, re-routed drainage
Closed mud system
Off-site disposal of solids/liquids (in approved facility)
Other: Comments: 300' of surface casing cemented to surface adequate to protect
freshwater zones. Also, air/air mist and/or fresh water mud systems to be used.
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Soils/Vegetation/Land Use

Historical/Cultural/Paleontological
(possible concerns) Proximity to known sites: None identified
Mitigation avoidance (topographic tolerance, location exception) other agency review (SHPO, DSL, federal agencies) Other:
Comments: Private surface lands, grasslands. No concerns.
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Social/Economic (possible concerns)
Substantial effect on tax base
Create demand for new governmental services
Population increase or relocation
Comments: No concerns.
Remarks or Special Concerns for this site
Well is a 2900' Rierdon Formation test.
Summary: Evaluation of Impacts and Cumulative effects No long term impacts expected. Some short term impacts will occur, but can be mitigated. Location is about 6000' south of the nearest wind generation towers.
I conclude that the approval of the subject Notice of Intent to Drill (does/ <u>does not</u>) constitute a major action of state government significantly affecting the quality of the human environment, and (does/ <u>does not</u>) require the preparation of an environmental impact statement.
Prepared by (BOGC): <u>/s/ Steven Sasaki</u> (title:) <u>Chief Field Inspector</u> Date: <u>May 28, 2010</u>
Other Persons Contacted:
Montana Bureau of Mines and Geology, GWIC website
(Name and Agency)
_Toole County water wells.
(subject discussed)
_May 19, 2010
(date)

US Fish and Wildlife, Region 6 website